FRACTIONAL DATA SYNCHRONIZATION AND CONSOLIDATION IN AN ENTERPRISE INFORMATION SYSTEM

ABSTRACT OF THE INVENTION

Methods and systems for automatically updating data within a peer-topeer enterprise information system. A change for a source data type is
published over broadcast channel. The data change is received at a join engine
peer and, in response to receiving the data change, the join engine peer
consults a global attribute object model for identifying a dependent output entity
(one that includes the same attribute as that of the data change) and for
identifying additional attributes for forming a modified attribute set for the output
entity. In response to discovering the output entity, a query is generated that is
directed to a source system that includes the additional attributes for forming the
modified attribute set. Upon receiving a response from the source system, the

join engine peer automatically forms the modified attribute set and publishes it to
an output source system associated with the output entity.